

**Composite of a Vulcanizable Rubber Composition  
and Cured Rubber Product**

Abstract of the Disclosure:

- 5           In a composite of vulcanizable rubber or rubber-like composition with one  
or more metal reinforcement elements embedded therein, the metal reinforcement  
element is coated with a polymer or non-cured rubber composition compatible  
with and co-polymerizable, co-vulcanizable or crosslinkable with said  
vulcanizable rubber composition to be reinforced, and additionally bearing  
10 functional groups either covalently bonding to the metal surface of said  
reinforcement element or forming covalent bonds with the outward directed first  
functional groups of a mono- or multimolecular layer of a bifunctional adhesion  
promoter intercalated between said metal and said coating and bound to said metal  
by its second functional groups. A cured rubber or rubber-like product, for  
15 instance a pneumatic tire, is obtained by vulcanization of such a composite.